

## **Addendum to Brunswick Corridor Study**

### **Loma Rica Intersection Alternatives Study**

As noted in the corridor study, traffic projections indicate that the interim improvements will allow the Loma Rica Drive intersection to operate within Level of Service (LOS) standards for approximately a decade. After that time signalization will be necessary to maintain LOS. Due to steep grades on a north-facing slope, signalization in the current location is inadvisable during the winter months for safety reasons. Three alternates to the present location were investigated. They are as follows:

1. Loma Rica Drive Connection to Idaho Maryland Road: This would involve building a parallel road to Brunswick Road and tying into the relocated Idaho Maryland Road intersection at its proposed connection to the Dorsey Drive extension. It involves 6,000-feet of new construction. The existing Loma Rica Drive intersection would be abandoned.
2. Loma Rica Drive Connection to Greenhorn Road: This would involve constructing an extension of Grass Valley Avenue to Greenhorn Road. It involves the construction of 1,700-feet of new roadway. One existing structure would need to be removed. The existing Loma Rica Drive intersection would remain open, but left turns from Loma Rica Drive to Brunswick Road would not be allowed.
3. Loma Rica Drive Realignment: This involves realigning Loma Rica Drive so that it would connect to Brunswick Road southerly beyond the crest of the grade, approximately opposite Brunswick Pines Road. The existing intersection would be closed. This would involve reshaping the crest of the grade on Brunswick Road to provide better visibility. It would also include modifications to the existing Nevada Irrigation District ditch and siphon. It involves the construction of 2,900-feet of new roadway. One existing structure would need to be removed.

The following is a staff listing of pros and cons to the three proposals. More may be discovered as they go through public review. Whichever proposal is selected, signals will ultimately be required at the Brunswick Road intersections with the Dorsey Drive extension and Greenhorn Road/East Bennett Road. Therefore, the cost of signals at these intersections is not included.

1. Loma Rica Drive Connection to Idaho Maryland Road

Pros:

- Resolves LOS at Whispering Pines Road and Brunswick Road.
- Closes existing Loma Rica Drive intersection.
- Better balance between main and side streets leads to better LOS.
- Existing roadway could be left as gated secondary emergency access.
- Does not disrupt existing neighborhood.
- Utilizes an intersection that will need to be signalized.

Cons:

- Takes left turning traffic approximately one mile out of direction (2 miles additional travel)
- Steep grades in area susceptible to snow and icing conditions. Additional mile of sanding and snow removal area.
- \$1.65 million in cost.
- Cuts through open space area.

2. Loma Rica Drive Connection to Greenhorn Road

Pros:

- Utilizes an intersection that will need to be signalized.
- Provides emergency access.
- Shortest route and least cost (\$1.15 million).
- Minimal disruption to existing neighborhood.

Cons:

- Split intersection may be confusing.
- Requires removal of one dwelling unit.
- Grades steep, but not as bad as other two options.

3. Loma Rica Drive realignment

Pros:

- Closes existing Loma Rica Drive intersection.
- Provides better access for Brunswick Pines Road.
- Minimal disruption to existing neighborhood.
- Existing roadway could be left as gated secondary emergency access.
- Maintains existing travel patterns.

Cons:

- Requires an additional signal.
- Requires relocation of some Nevada Irrigation District facilities.
- Most expensive option at \$1.90 million.
- Requires removal of one dwelling unit.

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